

What is claimed is:

1. A plasma display panel comprising:  
a pair of substrates;  
5 a discharge gas being filled in a gap between the  
substrates; and  
a mesh-patterned partition arranged on the inner surface  
of one of the substrates for dividing the gap into plural squares  
corresponding to a cell arrangement, wherein the partition is a  
10 structure having low portions lowered for forming a mesh-like  
air path that travels all gas-filled space enclosed by the  
partition in a plan view.
2. The plasma display panel according to claim 1,  
wherein the difference between the heights of the upper surface  
15 of the partition is more than 5% of the maximum height.
3. The plasma display panel according to claim 1,  
wherein the difference between the heights of the upper surface  
of the partition is more than 10  $\mu\text{m}$ .
4. The plasma display panel according to claim 1,  
20 wherein a fluorescent material is arranged on the row direction  
side and the column direction side of the partition in each cell  
that constitutes the display surface.
5. The plasma display panel according to claim 1,  
wherein the plan view pattern of the partition is a check pattern  
25 that divides the gap into cells in the row direction and in the  
column direction of the matrix display and an inter-row portion  
of the partition that is a boundary wall between rows is lower  
than other portions.
6. The plasma display panel according to claim 5,  
30 wherein the inter-row portion has a plan view pattern enclosing

at least one space for each column.

7. The plasma display panel according to claim 6, wherein the plan view pattern of the inter-row portion is a ladder pattern.

5 8. The plasma display panel according to claim 5, wherein the partition is arranged on the back substrate, an electrode including a transparent conductive film and a metal film straddling over all columns is arranged on the front substrate, and the metal film and the inter-row portion are  
10 overlaid in the plan view.

9. The plasma display panel according to claim 1, wherein the partition is a baked material having a heat shrink property, and the width of the low portions of the partition is wider than that of the other portion of the partition.

15 10. A method for manufacturing a plasma display panel according to claim 1, the method comprising the steps of:

forming a layer made of a partition material having a heat shrink property on a substrate;

20 patterning the layer to be a mesh pattern having a large pattern width portion at the ring-shaped pattern enclosing a cell in the plan view; and

forming the partition by baking the patterned layer.

11. The method according to claim 10, wherein the patterning step includes the steps of placing a cutting mask  
25 corresponding to the mesh pattern on the layer, and cutting non-masked portions of the layer by sandblasting.